

◆ **Technical Data:**

**Model:PR-E-16DC-DA-R**

**RIEV/TECH**



1.16 pcs extensions can be applied to the PR-18 or PR-24 CPU  
 2.Connection cable length can be customized(Max. 30 Meters for the distance between the end extension and CPU)

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| <b>Power supply:</b>                          |   |
|---|---|
| Nominal voltage                               | DC 12-24V   |
| Operating limits                              | DC 10.8-28.8V   |
| Immunity from micro power cuts                | Typ.5 ms  |
| Max. Startup current                          | Max. 0.25A  |
| Max. absorbed power                           | 3.5 W (10.8V dc) ; 4.5 W (28.8V dc)   |
| Protection against polarity inversions        | Yes   |
| <b>Input parameters:</b>                      |   |
| Input No                                      | 8 ( I1-I8 )   |
| Digital input                                 | 8 ( I1-I8 )   |
| Analogue input                                | 4 ( I1-I4)(0..10V DC)   |
| <b>Digital inputs( I5-I8 )</b>                |   |
| Input voltage                                 | DC0-28.8V   |
| Input signal0                                 | < 5V DC; <1mA   |
| Input signal1                                 | > 8 V DC;>1.7mA   |
| Input current                                 | 2.3mA @ 10.8V dc<br>2.6mA @ 12.0 V dc<br>5.2 mA @ 24 V dc<br>6.3 mA @ 28.8 V dc |
| Response time                                 | 0 to 1 : <1 ms ; 1 to 0 : <1 ms   |
| Maximum counting frequency                    | 4 Hz(I5--I8)  |
| Sensor type                                   | Contact or 3-wire PNP   |
| Input type                                    | Resistive   |
| Isolation between power supply and inputs     | None  |
| Isolation between inputs                      | None  |
| <b>Inputs used as digital inputs( I1-I4 )</b> |   |
| Input voltage                                 | DC0-28.8V   |
| Input signal0                                 | < 5V DC;<0.1mA  |
| Input signal1                                 | > 8 V DC;>0.3mA   |
| Input current                                 | 0.4mA @ 10.8V dc<br>0.5mA @ 12.0 V dc<br>1.2mA @ 24 V dc<br>1.5mA @ 28.8 V dc   |

|   |   |
|---|---|
| Response time                                     | 0 to 1 : Typ. 1.5 ms ; 1 to 0 : Typ. 1.5 ms   |
| Maximum counting frequency                        | Typ.: 4 HZ  |
| Sensor type                                       | Contact or 3-wire PNP   |
| Input type  | Resistive   |
| Isolation between power supply and inputs         | None  |
| Isolation between inputs                          | None  |
| <b>Inputs used as analog inputs( I1-I4 )</b>      |   |
| Measurement range                                 | DC 0---10V  |
| Input impedance                                   | Min, 24K $\Omega$ ; Max. 72K $\Omega$   |
| Input voltage                                     | 28.8 V DC max   |
| Resolution  | 9bit ,0.015V  |
| Accuracy at 25 °C                                 | $\pm$ (Max.0.03)V   |
| Accuracy at 55 °C                                 | $\pm$ (Max.0.06)V   |
| Isolation between analog channel and power supply | None  |
| Cable length                                      | 10 m max. shielded and twisted  |
| <b>Output parameters:</b>                         |   |
| Output No.  | 8 (Q1-Q8)   |
| Output type                                       | Relay output  |
| Continuous current                                | (Q1-Q4) Resistive load 3A/Inductive load 1A<br>(Q5-Q8) Resistive load 10A/Inductive load 2A |
| Max. breaking voltage                             | AC 250 V<br>DC 110 V  |
| Max. Allowable Power Force                        | (Q5-Q8)1250VA 300W<br>(Q1-Q4) 500VA 100W  |
| Electrical durability Expectancy                  | 10 <sup>5</sup> Operations at Rated Resistive Load  |
| Mechanical life                                   | 10 <sup>7</sup> Operations at No Load condition   |
| Response time                                     | Operate Time : 15 mSec. Max.<br>Release Time : 10 mSec. Max.                                |
| Built-in protections                              | Against short-circuits: None<br>Against overvoltages and overloads: None                    |
| <b>Switch frequency:</b>                          |   |
| Mechanism   | 10Hz  |
| Resistor/light load                               | 2Hz   |
| Sensitive load                                    | 0.5Hz   |
| <b>Other parameters:</b>                          |   |
| Operation temp                                    | -20°C-55°C  |
| Storage temp                                      | -40°C-70°C  |
| Weight  | Approx.300g   |

# Installation Dimensions & Wiring Diagram

